

Encounter Screen for TB Disease and LTBI

1. Screen: Initial Load

CONDITION SPECIFIC - Jurisdiction based security – Add Encounter button is only available to users that have access for the manage jurisdiction for the condition.

- Refer to properties in Global.ascx.vb file for proper security roles and screen displays.
(Ex. ViewHIV, viewTBDisease, viewCD)

Encounter																							
Last Modified: 4/7/2005 By: TESTB Condition ID: 368247504 RVCT Number: 200600001																							
Required fields are denoted by *																							
QA Complete:	<input type="text" value="NO"/>	Case Type:	<input type="text" value="LAB CONFIRMED"/>	CDC Case Definitions																			
Month Year Counted:	<input type="text" value="12"/> <input type="text" value="2006"/>	*Counted Jurisdiction:	<input type="text" value="CAPE GIRARDEAU"/>																				
Jurisdiction Type:	PROVIDER	*Manage Jurisdiction:	<input type="text" value="CAPE GIRARDEAU"/>	Update																			
General Encounter Information																							
Encounter error message here																							
Encounter Date: *	<input type="text" value="10202004"/> mmddyyyy	Evaluator Last Name: *	<input type="text" value="SMITH"/>	Evaluator First Name: *	<input type="text" value="JOE"/>																		
Next Encounter Date:	<input type="text" value="11202004"/> mmddyyyy	Next Encounter Time:	<input type="text" value="10:00"/> hh:mm	<input type="text" value="AM"/>	<input type="text" value="V"/>																		
Directly Observed Therapy (DOT)																							
DOT: *	<input type="text" value="YES"/>	If DOT, Location:	<input type="text" value="HEALTH DEPARTMENT"/>																				
If No DOT, Reason:	<input type="text"/>																						
TB Infection Encounter (Displays for LTBI Only)																							
Encounter error message here																							
<input type="checkbox"/> No Signs and Symptoms of Active TB Disease <input type="checkbox"/> No Liver Enzyme Test Administered																							
Note: Enter Symptoms on the Symptoms Screen, Liver Enzyme Tests on the Tests Screen, and Allergies on the History: Allergies screen																							
Medication and Effect(s)																							
Medication error message here																							
Medication:	<input type="text" value="INH - ISONIAZID"/>	Compliance Code:	<input type="text" value="DOT"/>																				
Adverse Effect:	<input type="text"/>	Add Adverse Effect to List>>																					
Other Adverse Effect:	<input type="text"/>	Clear																					
				<table border="1"><thead><tr><th colspan="2">Adverse Effect</th></tr></thead><tbody><tr><td>Remove</td><td>SOME EFFECT</td></tr><tr><td>Remove</td><td>SOME OTHER EFFECT</td></tr></tbody></table>		Adverse Effect		Remove	SOME EFFECT	Remove	SOME OTHER EFFECT												
Adverse Effect																							
Remove	SOME EFFECT																						
Remove	SOME OTHER EFFECT																						
				Add Medication to List Clear																			
<table border="1"><thead><tr><th></th><th>Medication</th><th>Compliance Code</th><th>Adverse Effect(s)</th><th>Entry Date</th><th>Entered By</th></tr></thead><tbody><tr><td>Edit Remove</td><td>INH</td><td>DOT</td><td>SOME EFFECT, SOME OTHER EFFECT</td><td>03/01/2005</td><td>USERJ</td></tr><tr><td>Edit Remove</td><td>RIF</td><td>SPECIAL CIRCUMSTANCE</td><td></td><td>02/01/2005</td><td>USERJ</td></tr></tbody></table>							Medication	Compliance Code	Adverse Effect(s)	Entry Date	Entered By	Edit Remove	INH	DOT	SOME EFFECT, SOME OTHER EFFECT	03/01/2005	USERJ	Edit Remove	RIF	SPECIAL CIRCUMSTANCE		02/01/2005	USERJ
	Medication	Compliance Code	Adverse Effect(s)	Entry Date	Entered By																		
Edit Remove	INH	DOT	SOME EFFECT, SOME OTHER EFFECT	03/01/2005	USERJ																		
Edit Remove	RIF	SPECIAL CIRCUMSTANCE		02/01/2005	USERJ																		
				Add Encounter to List Clear																			

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	Encounter Date	Evaluator	DOT	Next Encounter Date	Medication	Adverse Effect(s)	Entry Date	Entry Userid
Edit Remove	02/24/2005	JOE SMITH	YES	03/24/2005	INH, RIF	SOME EFFECT, SOME OTHER EFFECT	03/01/2005	USERJ
Edit Remove	10/02/2005	JOE SMITH	YES	11/02/2005	INH	SOME EFFECT	02/01/2005	USERJ

• **Notes error message here**

Note:

Count 0/2000

[Add to List](#) [Clear](#)

Note Date	Note	Entered By
03/01/2005	SOME COMMENT FOR THIS SCREEN	USER, JILL


[Save](#) [Cancel](#)

Screen Display

- Lock Entry Fields
 - No Wrap
 - Yellow Space is added to right of fields/labels (not in the middle or left)
- Grids set to 100% of full page
- Add to List and Clear set to top right most of grid
- Subheader titles (if needed) are bold
- No borders on sections/tables
- Paging will be available in the list grids to show five at a time and add paging when there are more than five rows of information. Keep the current sort order when paging.
- The tab order should default as top to bottom left to right unless otherwise stated.
- No more than the maximum number of characters can be entered into the following fields:
 - **Encounter**
 - Evaluator Last Name – 40
 - Evaluator First Name – 30
 - If DOT, Location – 64
 - If No DOT, Reason – 64
 - Next Encounter Time – 5 (in the format of hh:mm)
 - Other Adverse Effect – 64

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2. JavaScript validations and behaviors:

- Date Fields: (DATE OF LAST EXPOSURE, ONSET DATE)
 - Display should include label, entry field, calendar icon, and format
[Label:  (mmddyyyy)]
 - Display “Invalid Date” to the right of the Date field that is not a valid date (i.e. does not have a valid month day year combination) as soon as the user leaves the field. Earliest valid date is 01011800.
 - Date fields - listed above – 10 (must have day and slashes in this date so it must be exactly 10 characters)
 - When click the calendar icon and select a date, keep the cursor on the date field so the user can tab to the next field.
 - Only allow entry of numbers and slashes (no characters)
- When the user scrolls, save the position. When the screen reloads, use the latest scroll position to redisplay the screen in the same position as it was before the reload.
- Use JavaScript on select of a Directly Observed Therapy (DOT)
 - If ‘YES’
 - “If DOT, Location” field enabled
 - “If No DOT, Reason” field disabled
 - If ‘NO’
 - “If DOT, Location” field disabled
 - “If No DOT, Reason” field enabled
- Use JavaScript on select of Adverse Effect
 - If ‘OTHER’ is selected
 - Other Adverse Effect enabled
 - If not
 - Other Adverse Effect disabled

3. Coding

- Grid Sort
 - Sort the list as follows:
 - **Medication** by Medication name ascending
 - **Adverse Effects** initially ascending within the Adverse Effect grid and always ascending within each concatenated list of multiple adverse effects for a medication.
 - When click column header in grid, check that the sort is currently on that column.
 - If true
 - Sort list on that column ascending/descending (opposite current sort)
 - If false
 - Sort list on that column ascending
 - When click a column header to change the sort, restart the user on page 1 of the grid with the new sort order.
 - Dates sort include the month, day and year.
 - The Entered By name column sorts on Last Name and then First Name.
 - On initial load of the screen when the user is adding a new encounter, retrieve the latest encounter information for the same condition id and default the entry fields in the top section with that data and load the medication grid with that data.

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- Drop down lists
 - **Directly Observed Therapy (DOT)** (LIST_NAME: YES_NO)
 - **Next Encounter Time**
 - A blank item
 - AM
 - PM
 - **Medication**

On initial load of the screen in any mode, load the Medication drop down with:

 - A blank item
 - No Current Medication (LTBI needs this)
 - The drug names that are in the treatment records for the condition no matter what their start and end dates are. For example, the drugs are found in (LIST_NAME: DRUG FOR TREATMENT)
 - **Compliance Codes** (LIST_NAME: COMPLIANCE CODE)
 - **Adverse Effect** (LIST_NAME: ADVERSE EFFECT)
 - Added No Effect from Medication (for LTBI)

4. Display grid links

- Before Save of Record – Display
 - [Edit](#) and [Remove](#) links
- After Save of Record – Display
 - Update and QA Role – [Edit](#) link only
- Admin Role – [Edit](#) and [Remove](#)

5. Error Messages

- **Encounter error messages**
 - Encounter Date is required
 - Encounter Date cannot be future date
 - Encounter Date cannot be prior to the Person's Date of Birth
 - Encounter Date cannot be prior to the Date of Report
 - Encounter Date already exists
 - Encounter Date must be prior to Next Encounter Date
 - Evaluator Last Name is required
 - Evaluator Last Name must be alphanumeric, punctuation cannot be entered
 - Evaluator First Name is required
 - Evaluator First Name must be alphanumeric, punctuation cannot be entered
 - Directly Observed Therapy (DOT) selection is required
 - DOT Location can only be entered when Directly Observed Therapy is 'YES'
 - DOT Location must be alphanumeric, punctuation cannot be entered
 - No DOT Reason can only be entered when Directly Observed Therapy is 'NO'
 - No DOT Reason must be alphabetic, punctuation cannot be entered
 - Next Encounter Date cannot be prior to the Person's Date of Birth
 - Next Encounter Date cannot be prior to the Date of Report
 - One Next Encounter Time field cannot be entered without the other
- **Adverse Effect error messages**
 - The Adverse Effect is already in the list

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- Other Adverse Effect is required when 'OTHER' is selected
- Other Adverse Effect cannot be entered when an Adverse Effect is selected
- Other Adverse Effect cannot be entered when the same Adverse Effect can be selected
- Other Adverse Effect must be alphanumeric, punctuation cannot be entered
- **Medication error messages**
 - Medication is required.
 - The Medication is already in the list.
 - Compliance Code is required for the Medication that is selected
 - This error messages applies to all Medications other than "UNKNOWN"
 - Other Adverse Effect is required when 'OTHER' is selected
 - Other Adverse Effect cannot be entered when an Adverse Effect is selected
 - Other Adverse Effect cannot be entered when the same Adverse Effect can be selected
 - Other Adverse Effect must be alphanumeric, punctuation cannot be entered
 - Information has been entered to add to a list, click Add to List or Clear the information
 - Encounter Date is not within Treatment Start and End Dates for DRUG NAME
 - Must be within the Treatment Start and End Dates to add the selected Medication to the list. Verify the Encounter Date with dates on the Treatment screen

6. Buttons & Links

- Validation to display messages to the user will not be performed on [Clear](#) or on **Cancel**
- When click **Cancel** button, reload screen.
- When click [Cancel](#) link to cancel edit of a medication, do the same as when click the medication section's [Clear](#) link. Then show the [Add to List](#) and [Clear](#) links and hide the [Replace](#) link. Also, re-enable the Medication entry field.
- When click [Clear](#) link
 - Clear out the entry fields in that section
 - Clear out error messages in that section.
- When click an [Add to List](#) link, validate the entry fields in that section and their combinations.
 - If passes validation
 - Add those items to the grid in a new row that has a Remove link sorted the same as before clicking the link.
 - Clear out entry fields in that section and
 - Clear out error messages in that section
 - Display the page of the grid that the new row is added to.
 - If fails validation
 - Display the error messages above the entry fields in that section

Note: When click the [Add to List](#) link:

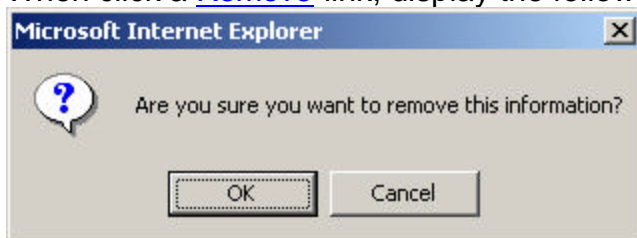
- If the Medication <> UNKNOWN
 - Encounter Date must be within the Medication's treatment start and end dates (Start Date <= the Encounter Date and an End Date that is blank or is >= the Encounter Date).
- If Medication is UNKNOWN

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- Encounter Date must be within all the condition's treatment start and end dates (Earliest Start Date <= the Encounter Date and an Latest End Date that is blank or is >= the Encounter Date).
- If either of the above true
 - If the dates are not valid,
 - Display the error message "Encounter Date must be within the Treatment Start and End Dates to add the selected Medication to the list. Verify the Encounter Date with dates on the Treatment screen."
- When click the **Save** button check to see if anything has been entered but not added to a list.
 - If true display
 - "Information has been entered to add to a list, click Add to List or Clear the information" in the section(s) and do not save.
 - If false and it passes all edits
 - Save to the database.

Note: When click the **Save** button:

- All medications in the encounter medication list must be valid for the Encounter Date that is being saved.
 - If not
 - Display the error message replacing XYZ with the Medication (such as INH) for each medication that is causing the error: "Encounter Date must be within the Treatment Start and End Dates for XYZ. Verify the Encounter Date with dates on the Treatment screen"
- When click an [Edit](#) link to edit a record
 - Clear out error messages in that section
 - Display information for that row in the entry fields
 - Hide its Add to List and Clear links
 - Show its Replace and Cancel links in the row
 - Hide the Edit and Remove links in that row
- When click [Replace](#) link to replace a record, do the same as when click [Add to List](#) link, but if it passes validation then show its [Add to List](#) and [Clear](#) links and hide its [Replace](#) link.
- When click [Cancel](#) link to cancel edit of a record, do the same as when click the [Clear](#) link. Then show its [Add to List](#) and [Clear](#) links and hide its [Replace](#) link.
- When click a [Remove](#) link, display the following popup.



- If the user clicks OK,
 - Remove the row from the grid display and if it was the only row, display "No items" as displayed in the screen shot above and
 - Clear out the entry fields in that section and
 - Clear out error messages in that section.
- If the user clicks Cancel
 - Do not remove the row from the grid display

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- Do not clear any entry fields or error messages.

I. Database routines

- Encounter information will be stored in the SURVWEB_COND_ENCOUNTER table in SURVWEB schema. This will be a new table as shown below.

Table:		Field on Screen	Database column	
SURVWEB.SURVWEB_COND_ENCOUNTER		NA – PRIMARY KEY	..._ID	Generate the PRIMARY KEY
PK	SURVWEB_COND_ENCOUNTER_ID	NA – FOREIGN KEY	..._ID	Set FOREIGN KEY
FK1	SURVWEB_CONDITION_ID ENCOUNTER_DATE EVALUATOR_LAST_NAME EVALUATOR_FIRST_NAME DOT DOT_LOCATION REASON_NO_DOT NEXT_ENCOUNTER_DATE NEXT_ENCOUNTER_TIME ALLERGY_IND ALLERGY_LIST CURRENT_MED_IND SIGN_SYMPTOM_IND ADVERSE_EFFECT_IND LIVER_ENZYME_IND ENTRY_USERID ENTRY_DATETIME LAST_CHANGED_USERID LAST_CHANGED_DATETIME	Encounter Date	ENCOUNTER_DATE	
		Evaluator Last Name	EVALUATOR_LAST_NAME	
		Evaluator First Name	EVALUATOR_FIRST_NAME	
		Directly Observed Therapy (DOT)	DOT	
		IF DOT, Location	DOT_LOCATION	
		If No DOT, Reason	REASON_NO_DOT	
		Next Encounter Date	NEXT_ENCOUNTER_DATE	
		Next Encounter Time	NEXT_ENCOUNTER_TIME	
		No Allergies	ALLERGY_IND	
		List Allergies	ALLERGY_LIST	
		No Current Medication	CURRENT_MED_IND	
		No Signs/Symptoms of Active TB Disease	SIGN_SYMPTOM_IND	
		No Effect from Medication	ADVERSE_EFFECT_IND	
		No Liver Enzyme Test Administered	LIVER_ENZYME_IND	
		NA	ENTRY_DATETIME	Set ENTRY_DATETIME = SYSDATE
		NA	ENTRY_USERID	Set ENTRY_USERID = userid
		NA	LAST_CHANGED_DATETIME	NULL
		NA	LAST_CHANGED_USERID	NULL

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Medication/compliance/adverse effect information will be stored in the SURVWEB_COND_ENC_TREAT_ASSOC Table in SURVWEB schema. This will be a new table as shown below.

Table:	Field on Screen	Database column	
SURVWEB.SURVWEB_COND_ENC_TREAT_ASSOC	NA – PRIMARY KEY	..._ID	Generate the PRIMARY KEY
PK SURVWEB_COND_ENC_TREAT_ASSOC_ID	NA – FOREIGN KEY	..._ID	Set FOREIGN KEY
FK1 SURVWEB_COND_ENCOUNTER_ID FK2 SURVWEB_COND_TREATMENT_ID	Medication	TREATMENT_ID links to the TREATMENT table for display of the medication name	
COMPLIANCE_CODE	Compliance Code	COMPLIANCE_CODE	
ADVERSE_EFFECT	Adverse Effect	ADVERSE_EFFECT	
ADVERSE_EFFECT_OTHER	Other Adverse Effect	ADVERSE_EFFECT_OTHER	
ENTRY_USERID	NA	ENTRY_DATETIME	Set ENTRY_DATETIME = SYSDATE
ENTRY_DATETIME	NA	ENTRY_USERID	Set ENTRY_USERID = userid
LAST_CHANGED_USERID	NA	LAST_CHANGED_DATETIME	NULL
LAST_CHANGED_DATETIME	NA	LAST_CHANGED_USERID	NULL
SURVWEB.SURVWEB_COND_TREATMENT			
PK SURVWEB_COND_TREATMENT_ID			
FK1 SURVWEB_CONDITION_ID			
DRUG_NAME			
DRUG_OTHER			
DOSAGE			
DOSAGE_UNIT			
FREQUENCY			
DURATION			
DURATION_UNIT			
START_DATE			
ROUTE			
ROUTE_OTHER			
TREATMENT_FACILITY			
END_DATE			
NUMBER_DOSES_ADMINISTERED			
HISTORICAL			
PREV_LOCATION_CITY			
PREV_LOCATION_ST			
PREV_TREATMENT			
CLIENT_WEIGHT			
CLIENT_WEIGHT_UNIT			
ENTRY_USERID			
ENTRY_DATETIME			
LAST_CHANGED_USERID			
LAST_CHANGED_DATETIME			

Table:	Field on Screen	Database column	
SURVWEB.SURVWEB_COND_TB_INFECTION	NA – PRIMARY KEY	..._ID	Generate the PRIMARY KEY
PK SURVWEB_COND_TB_INFECTION_ID	NA – FOREIGN KEY	..._ID	Set FOREIGN KEY
FK1 SURVWEB_CONDITION_ID	NA	WARNING_OVERRIDDEN_IN D	
WARNING_OVERRIDDEN_IND	No Current Tuberculin Skin Test Done	CURRENT_SKIN_TEST_IND	
CURRENT_SKIN_TEST_IND	No Historical Tuberculin Skin Test Done	HIST_SKIN_TEST_IND	
HIST_SKIN_TEST_IND	No Current QuantiFERON Test Done	CURRENT_QFERON_TEST_I ND	
CURRENT_QFERON_TEST_IND	No Historical QuantiFERON Test Done	HIST_QFERON_TEST_IND	
HIST_QFERON_TEST_IND	No X-Ray Done	XRAY_IND	
XRAY_IND	NA	BCG_INDICATOR	
BCG_VACCINE_IND	NA	MED_PROVIDED_BY	
MED_PROVIDED_BY	NA	DOT_INDICATOR	
DOT_INDICATOR	NA	ENTRY_DATETIME	Set ENTRY_DATETIME = SYSDATE
ENTRY_DATETIME	NA	ENTRY_USERID	Set ENTRY_USERID = userid
ENTRY_USERID	NA	LAST_CHANGED_DATETIME	NULL
LAST_CHANGED_DATETIME	NA	LAST_CHANGED_USERID	NULL
LAST_CHANGED_USERID			

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Table:	Field on Screen	Database column	
SURVWEB.SURVWEB_COND_TESTS PK SURVWEB_COND_TESTS_ID FK1 SURVWEB_CONDITION_ID TEST_DATE RESULT_DATE TEST_TYPE CLASSIFICATION SPECIMEN_TYPE SPECIMEN_PROCEDURE SPECIMEN_SOURCE_ANATOMIC_TEXT SPECIMEN_SOURCE_ANATOMIC_CODE SPECIMEN_DATE SPECIMEN_ID QUALITATIVE_RESULT QUANTITATIVE_RESULT QUANTITATIVE_RESULT_UNIT REFERENCE_RANGE SUBMITTER_CONDITION_PARTY_ID LAB_CONDITION_PARTY_ID ANERGIC LOT_NUMBER MANUFACTURER QUANTIFERON_RESULT ABNORMAL_STATUS ABNORMAL_FINDINGS OTHER_FINDINGS PATTERN MIRU_CLUSTER OTHER_RESULT ENCOUNTER_ID ENTRY_USERID ENTRY_DATETIME LAST_CHANGED_USERID LAST_CHANGED_DATETIME	NA	SURVWEB_COND_TESTS_ID	Generate the SURVWEB_COND_TESTS_ID
	NA	SURVWEB_CONDITION_ID	Set SURVWEB_CONDITION_ID to SURVWEB_CONDITION_ID
	Test Date	TEST_DATE	
	Result Date	RESULT_DATE	
	Test Type	TEST_TYPE	
	Classification	CLASSIFICATION	
	Specimen Type	SPECIMEN_TYPE	
	Specimen Procedure	SPECIMEN_PROCEDURE	
	Specimen Source	SPECIMEN_SOURCE_ANATOMIC_TEXT	
		SPECIMEN_SOURCE_ANATOMIC_CODE	
	Specimen Date	SPECIMEN_DATE	
	Specimen ID	SPECIMEN_ID	
	Qualitative Result	QUALITATIVE_RESULT	
	Quantitative Result	QUANTITATIVE_RESULT	
	Quantitative Result Unit	QUANTITATIVE_RESULT_UNIT	
	Reference Range	REFERENCE_RANGE	
	Submitter (Search)	SUBMITTER_CONDITION_PARTY_ID	
	Laboratory (Search)	LAB_CONDITION_PARTY_ID	
	Anergic	ANERGIC	
	Lot Number	LOT_NUMBER	
	Manufacturer	MANUFACTURER	
	Quantiferon Result	QUANTIFERON_RESULT	
	Abnormal Status	ABNORMAL_STATUS	
	Abnormal Findings	ABNORMAL_FINDINGS	
	Other Findings	OTHER_FINDINGS	
	Pattern	PATTERN	
	MIRU Cluster	MIRU_CLUSTER	
	Other Result	OTHER_RESULT	
	NA	ENCOUNTER_ID	
	NA	ENTRY_DATETIME	Set ENTRY_DATETIME = SYSDATE
	NA	ENTRY_USERID	Set ENTRY_USERID = userid
	NA	LAST_CHANGED_DATETIME	NULL
	NA	LAST_CHANGED_USERID	NULL

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II. Database routines – NOTES or COMMENTS

CONDITION NOTES - To display the notes in various screens, use NOTE_TYPE for filter.

Notes will be saved to SURVWEB_COND_NOTE with a NOTE_TYPE of ENCOUNTER.

Table:		Field on Screen	Database column	
SURVWEB.SURVWEB_COND_NOTE		NA	SURVWEB_COND_NOTE_ID	Generate a SURVWEB_COND_NOTE_ID
PK	SURVWEB_COND_NOTE_ID			
FK1	SURVWEB_CONDITION_ID ENCOUNTER_ID CONTACT_ID NOTE_TYPE NOTE_TEXT ENTRY_DATETIME ENTRY_USERID	NA	SURVWEB_CONDITION_ID	Set SURVWEB_CONDITION_ID = the CONDITION_ID
		Encounter Screen – ENCOUNTER_ID generated at SAVE	ENCOUNTER_ID	Set ENCOUNTER_ID to ENCOUNTER_ID
		Condition Contact Screen – CONTACT_ID generated at SAVE	CONTACT_ID	Set NOTE_TEXT to NOTE_TEXT
		NA	NOTE_TYPE	Set NOTE_TYPE = ENCOUNTER (when entered from the LIST ENCOUNTER node)
		Narrative	NOTE_TEXT	Set NOTE_TEXT to NOTE_TEXT
		NA	ENTRY_DATETIME	Set ENTRY_DATETIME = current date time
		NA	ENTRY_USERID	Set ENTRY_USERID = userid